

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property
Organization
International Bureau**



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/091065 A1

- (51) **International Patent Classification⁷:** **H02G 9/10,**
H02B 1/50, G02B 6/44

(21) **International Application Number:**
PCT/US2004/009986

(22) **International Filing Date:** 1 April 2004 (01.04.2004)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
2003901531 2 April 2003 (02.04.2003) AU
2003903269 27 June 2003 (27.06.2003) AU

(71) **Applicant:** 3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).

(72) **Inventor; and**
(75) **Inventor/Applicant (for US only):** PALMER, Ian, J. [AU/AU]; 3M, 2-74 Dunheved Circuit, St. Marys, NSW 2760 (AU).

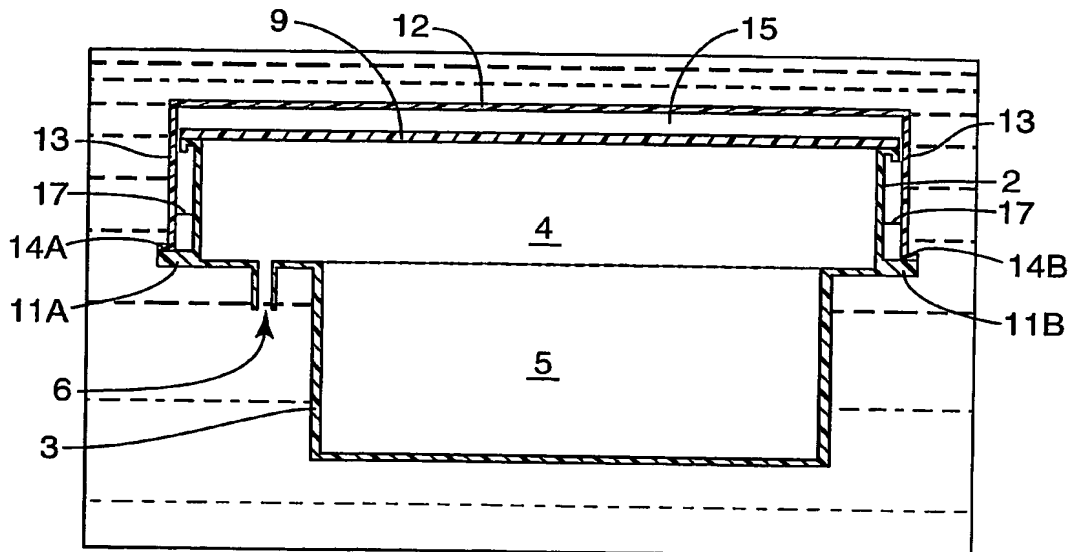
(74) **Agents:** TRUSSELL, James, J. et al.; Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).

(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

- (54) Title:** CONNECTION SYSTEM



- (57) Abstract:** A junction box to seal the contents from the effects of dust and moisture while providing convenient access inside the box. In the invention provides a connection system for communication media that includes: (a) a housing (1) defining an internal cavity and an opening (7) to allow access; (b) one or more apertures (6) extending through the housing (1) to the cavity, each aperture (6) adapted to receive communications media; (c) one or more connectors mounted within the cavity adapted to interconnect the communications media extending through the aperture(s) (6); and (d) a cover (10) adapted to cooperate with the housing (1) to define an air reservoir (15) containing at least a portion of the housing including the opening (7), the reservoir (15) and the housing (1) cooperating to prevent fluid entering the cavity. Also provided is an apparatus for conveniently raising and lowering the junction box in and out of a below ground cavity.

WO 2004/091065 A1



Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.